

MK-101 Pro MK-101 Pro 24

TILE SAW OWNER'S MANUAL & OPERATING INSTRUCTIONS



Read all safety and operating instructions before using this equipment

Enter the Serial Number of your new saw in the space below. The Serial Number is located on the left side of the blade guard.

SERIAL NUMBER:

NOTE:

For your (1) one year warranty to be effective, complete the warranty card (including the Serial Number and mail it in as soon as possible.

INTRODUCTION

We at MK Diamond want to congratulate you on selecting the MK-101 Pro Series Tile Saw. We are certain that you will be pleased with your purchase. MK Diamond takes pride in producing the finest products in the industry.

Operated correctly, your MK-101 should provide you with years of quality service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your MK-101 safely and correctly. Please take a few minutes to familiarize yourself with the MK-101 PRO SERIES by reading and reviewing this manual.

If you should have questions concerning your MK-101 PRO SERIES, please feel free to call our friendly customer service department at: 800 421-5830

Regards,

MK Diamond

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Manual Part No. 158808 Revision No. 08/05

Read and follow all safety, operating and maintenance instructions. Failure to read and follow these instructions could result in injury or death to you or others. Failure to read and follow these instructions could also result in damage and/or reduced equipment life.

SAFETY MESSAGES:

Safety messages inform the user about potential hazards that could lead to injury, death and/or equipment damage. Each safety message will be preceded by one of the following (3) three words that identify the severity of the message.

ADANGER

Not following instructions WILL lead to DEATH or SERIOUS INJURY

∆WARNING

Not following instructions COULD lead to DEATH or SERIOUS INJURY

A CAUTION

Not following instructions CAN lead to injury

DAMAGE PREVENTION AND INFORMATION MESSAGES:

A Damage Prevention Message is to inform the user of important information and/or instructions that could lead to equipment or other property damage if not followed. Information Messages convey information that pertains to the equipment being used. Each message will be preceded by the word NOTE, as in the example below.

NOTE:

Equipment and/or property damage may result if these instructions are not followed.

GENERAL SAFETY PRECAUTIONS AND HAZARD SYMBOLS:

In order to prevent injury, the following safety precautions and symbols should be followed at all times!

Safety Precautions:

KEEP GUARDS IN PLACE.



In order to prevent injury, keep guards in place and in working order at all times.

REMOVE ADJUSTING KEYS AND WRENCHES.

Form a habit of checking to see that keys and adjusting wrenches are removed from the power tool before it is turned on.

KEEP WORK AREA CLEAN.

Cluttered work areas and benches invite accidents.

DO NOT USE IN DANGEROUS ENVIRONMENTS.

Do not use power tools in damp or wet locations nor expose them to rain. Always keep the work area well lighted.

KEEP CHILDREN AWAY.

All visitors and children should be kept a safe distance from work area.

MAKE THE WORKSHOP KID PROOF.

Make the workshops kid proof by using padlocks, master switches or by removing starter keys.

DO NOT FORCE THE TOOL.

A power tool will do a job better and safer operating at the rate for which it was designed.

USE THE RIGHT TOOL.

Do not force a tool or an attachment, to do a job that it was not designed to do.

USE THE PROPER EXTENSION CORD.

If using an extension cord make sure it is in good condition first. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage that will result in a loss of power and overheating. TABLE 1, Page 8 shows the correct AWG size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

WEAR PROPER APPAREL.

Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry that may be caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

ALWAYS USE SAFETY GLASSES.



Safety glasses should always be worn when working around power tools. In addition, a face, dust mask or respirator should be worn if a cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses and may not prevent eye injury; they are NOT safety glasses.

SECURE WORK.

Clamps or a vise should be used to hold work whenever practical. Keeping your hands free to operate a power tool is safer.

DO NOT OVERREACH.

Keep proper footing and balance at all times by not overreaching.

MAINTAIN TOOLS WITH CARE.

Keep tools clean for the best and safest performance. Always follow maintenance instructions for lubricating, and when changing accessories.

DISCONNECT TOOLS.

Power tools should always be disconnected before servicing or when changing accessories, such as blades, bits, cutters, and the like.

REDUCE THE RISK OF UNINTENTIONAL STARTING.



Make sure the switch is in the OFF position before plugging in the saw.

USE RECOMMENDED ACCESSORIES.

Consult the owner's manual for recommended accessories. Using improper accessories may increase the risk of personal or by-stander injury.

NEVER STAND ON THE TOOL.

Serious injury could occur if a power tool is tipped, or if a cutting tool is unintentionally contacted.

CHECK FOR DAMAGED PARTS.

Before using a power tool, check for damaged parts. A guard or any other part that is damaged should be carefully checked to determine it would operate properly and perform its intended function. Always check moving parts for proper alignment or binding. Check for broken parts and mountings and all other conditions that may affect the operation of the power tool. A guard, or any damaged part, should be properly repaired or replaced.

DIRECTION OF FEED.

Always feed work into a blade or cutter against the direction of rotation. A blade or cutter should always be installed such that rotation is in the direction of the arrow imprinted on the side of the blade or cutter.

NEVER LEAVE A TOOL RUNNING UNATTENDED – TURN POWER OFF.

Do not leave a tool until it comes to a complete stop. Always turn a power tool OFF when leaving the work area, or, when a cut is finished.

Hazard Symbols:

ELECTRICAL SHOCK!



Never touch electrical wires or components while the motor is running. Exposed, frayed or worn electrical motor wiring can be sources of electrical shock that could cause severe injury or burns.

ACCIDENTAL STARTS!



Make sure the switch is in the OFF position before plugging in the saw.

ROTATING OR MOVING PARTS!



Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate a power tool with covers, shrouds, or guards removed.

∆WARNING

Sawing and drilling generates dust. Excessive airborne particles may cause irritation to eyes, skin and respiratory tract. To avoid breathing impairment, always employ dust controls and protection suitable to the material being sawed or drilled; See OSHA (29 CFR Part 1910.1200). Diamond Blades improperly used are dangerous. Comply with American National Standards Institute Safety Code, B7.1 and, Occupational Safety and Health Act covering Speed, Safety Guards, Flanges, Mounting Procedures, General Operating Rules, Handling, Storage and General Machine Conditions.

CALIFORNIA PROPOSITION 65 MESSAGE:

∆WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead, from lead-based paints
- Crystalline silica, from bricks and cement and other masonry products
- Arsenic and chromium, from chemically treated lumber

For further information, consult the following sources:

http://www.osha-slc.gov/sltc/silicarystalline/index.html http://www.oehha.org/prop65/out_of_date/6022kLstA.html

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

ELECTRICAL REQUIREMENTS AND GROUNDING INSTRUCTIONS:

In order to prevent potential electrical shock and injury, the following electrical safety precautions and symbols should be followed at all times!

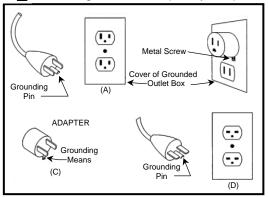
△WARNING



In case of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

- Do not modify the plug provided if it will not fit the outlet; have the proper outlet installed by a qualified electrician
- Improper connections of the equipment-grounding conductor can result in a risk of electric shock. The equipment-grounding conductor is the insulated conductor that has an outer surface that is green, with or without yellow stripes. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal
- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded
- Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug
- Repair or replace a damaged or worn cord immediately

AWARNING This tool is intended for use on a circuit that has an outlet that looks like the one shown in Sketch A of Figure 1. The tool has a grounding plug that looks like the plug illustrated in Sketch A of Figure 1. A temporary adapter, which looks like the adapter illustrated in sketches B and C,



may be used to connect this plug to a 2-pole receptacle as shown in Sketch B, if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, and the like, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box.

NOTE: Use of a temporary adapter is not permitted in Canada.

FIGURE 1

AWARNING To reduce the risk of electrocution, keep all connections dry and off the ground.



A Ground Fault Circuit Interrupter (GFCI) should be provided on the circuit(s) or outlet(s) to be used for the Saw. Receptacles are available having built-in GFCI protections and may be used for this measure of safety.

When using an extension cord, the GFCI should be installed closest to the power source, followed by the extension cord and lastly, the saw.



AWARNING The pump requires a GFCI. To reduce risk of electric shock when operating the saw with the pump plugged into the 3-pole receptacle on the motor, connect the saw to a GFCI outlet. See the pump manual and informational tags enclosed separately for all pump information.

ACAUTION Shock Hazard. For replacement, use only an identical MK pump, model PE1 part #151271.

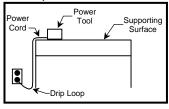
NOTE: Do not run the pump dry. Also, be sure to disconnect and remove the pump when cutting dry.

When using the water pump plugged into the water pump receptacle, the saw must be plugged into a properly installed and grounded GFCI outlet See Sketch A of Figure 2. If a GFCI outlet is not available, MK Diamond has available as an accessory item, a plug-in GFCI that may be plugged into a properly installed and grounded 3-pole outlet. See Sketch A of Figure 2.

FIGURE 2

AWARNING To avoid the possibility of the appliance plug or receptacle getting wet, position the saw to one side of a wall mounted receptacle. This will prevent water from dripping onto the receptacle or plug. A "drip loop," shown in Figure 3, should be arranged by the user to properly position the

power cord relative to the power source.



The "drip loop" is that part of the cord below the level of the receptacle, or the connector, if an extension cord is used. This method of positioning the cord prevents the travel of water along the power cord and coming in contact with the receptacle.

If the plug or receptacle gets wet, DO NOT unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the tool. Then unplug and examine for presence of water in the receptacle.

FIGURE 3

AWARNING Use only extensions cords that are intended for outdoor use. These extension cords are identified by a marking "Acceptable for use with outdoor appliances; store indoors while not in use." Use only extension cords having an electrical rating not less than the rating of the product. Do not use damaged extension cords. Examine extension cords before using and replace if damaged. Do not abuse extension cords and do not yank on any cord to disconnect. Keep cords away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnection the product form the extension cord.

△WARNING

To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch the plug with wet hands.

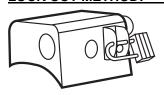
AWARNING Use of undersize extension cords result in low voltage to the motor that can result in motor burnout and premature failure. MK Diamond warns that equipment returned to us showing signs of being run in a low voltage condition, through the use of undersized extension cords will be repaired or replaced totally at the customers expense. There will be no warranty claim.

To choose the proper extension cord,

- Locate the length of extension cord needed in TABLE 1 below.
- Once the proper length is found, move down the column to obtain the correct AWG size required for that length of extension cord.

Extension Cord Minimum Gage for Length				
Volts	T	otal Length of	Cord in Feet	
120V	25 ft.	50 ft.	100 ft	150 ft.
	AWG	AWG	AWG	AWG
	14	12	Not Reco	mmended
TABLE 1				

LOCK OUT METHOD:

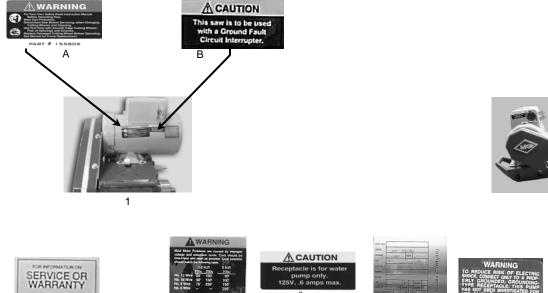


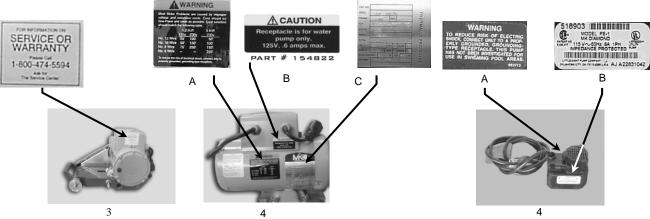
In order to help prevent accidental starting and to help make your workshop "Kidproof," this saw is provided with a means to deactivate the functioning of the motor switch. The switch is equipped with a Lockout plate that can be used with a lock to prevent the movement of the toggle switch. With the toggle switch unable to move the motor cannot be turned on. Removing the lock reactivates the switch.

SAFETY LABEL LOCATIONS:

Safety labels are located according to Figures 1 through 4 below. The labels contain important safety information. Please read the information contained on each safety label. These labels are considered a permanent part of your saw. If a label comes off or becomes hard to read, contact MK Diamond or your dealer for a replacement

Item	Location	Description	Part No.
1.	Motor Front	Warning Read and Follow Operating Instructions	155806
1B.	Motor Side	Label, Caution, GFCI, 1 X 2 1/8	155678
2.	Blade Side	Saw Serial Number Specifications	157500
3.	Motor Rear	Service or Warranty Information	155038
4A	Motor Rear	Extension Cord Warnings	155672
4B	Motor Rear	Label, Caution, 5 Amp Max., 1 X 2-1/8	154822
4C	Motor Rear	Motor Specifications	N/A
5A	Pump Left Side	Warning Connect to Grounded Receptacle	N/A
5B	Pump Right Side	Pump Specifications	N/A





TILE SAW SPECIFIC WARNINGS:

∆WARNING

Wear eye protection.

Disconnect saw before servicing, when changing cutting blades, and cleaning. Use tool only with smooth edge cutting blades free of openings and grooves. Replace damaged cutting blade before operating.

2

MK-101 PRO SERIES PRODUCT SPECIFICATIONS:

The MK-101 Pro Series are versatile Tile Saws. Operated and used according to this manual, the unit will provide years of dependable service.

The MK-101 Pro and the MK-101 Pro 24 are engineered as tabletop or stand mounted wet tile saws. The saws include a powerful 115v totally enclosed capacitor start motor with a thermal protective overload. The MK-115 Pro 24 includes a powerful 120v or 240v.

MK-101 Pro

The saw is capable of cutting tile up to twenty (20) inches in length, or diagonal cutting tile up to fourteen (14) inches. The saw can cut an object three and three-quarter (3-3/4) inches thick, in one pass.

Motor Specifications: Motor specifications for the MK-101 Pro are listed in Table 2-1 below.

Voltage	115 v
Overall Amperage	13 a
Motor Only Amperage	12.4 a
Frequency	60 Hz
RPM	3450 rpm
Horse Power	2.0 hp
Weight	103 lbs

Table 2-1

MK-101 Pro 24

The saw is capable of cutting tile up to twenty-four (24) inches in length, or diagonal cutting tile up to eighteen (18) inches. The saw can cut an object three and three-quarter (3-3/4) inches thick, in one pass.

Motor Specifications: Motor specifications for the MK-101 Pro 24 are listed in Table 2-2 below.

Voltage	115 v
Overall Amperage	13 a
Motor Only Amperage	12.4 a
Frequency	60 Hz
RPM	3450 rpm
Horse Power	2.0 hp
Weight	108 lbs

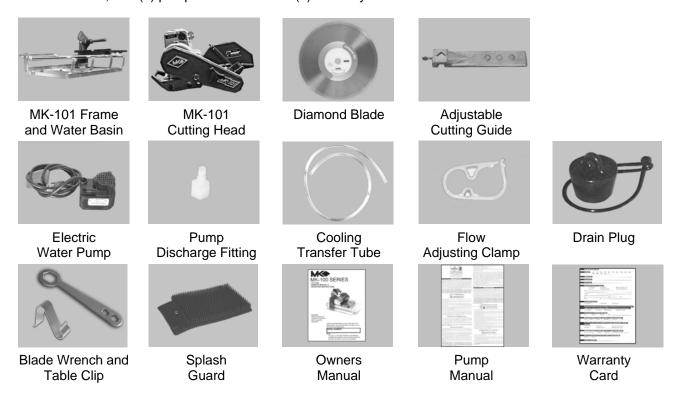
Table 2-2

UNPACKING:

Your MK-101 has been shipped from the factory thoroughly inspected. Only minimal assembly is required. <u>ACAUTION</u> Use proper lifting techniques when lifting the MK-101 PRO SERIES.

CONTENTS:

In your container, you will find one (1) MK-101 frame and water basin, one (1) MK-101 Cutting, one (1) 10-inch wet cutting continuous rim diamond blade, one (1) adjustable cutting guide, one (1) bull nose cutting guide, one (1) electric water pump, one (1) pump discharge fitting, one (1) cooling transfer tube, one (1) flow adjusting clamp, one (1) drain plug, one (1) blade wrench, one (1) Table Clip, one (1) splash guard, one (1) owners manual, one (1) pump manual and one (1) warranty card.

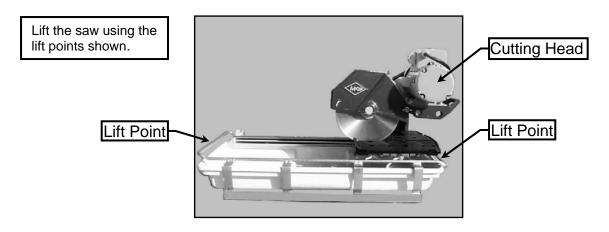


TRANSPORT:

△CAUTION 1. The MK-101 weighs approximately one hundred and seven (107) pounds.

2. Never transport the MK-101 with water in the Water Basin.

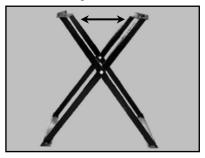
The MK-101 is designed with a rigid frame and removable Cutting Head. Two people are required to transport the MK-101 with the Cutting Head installed. Remove the Cutting Head if one person is transporting the saw (see Cutting Head Installation and Removal in the following section).



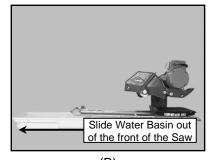
UNIVERSAL STAND:

△CAUTION The MK-101 PRO SERIES weighs approximately one hundred and seven (107) pounds; follow the guidelines for transport in the TRANSPORT section, when placing it on the stand.

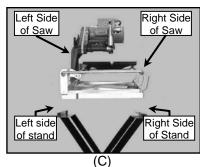
Note: If using the MK Diamond, Universal Stand, follow the following steps.



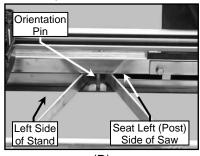
(A)
Open the Universal Stand and place on flat surface



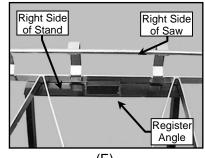
(B) Remove Water Basin



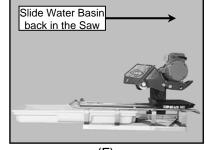
Orient the Saw to the Stand



(D)
Seat Left (Post) Side of saw
onto stand between stand
Orientation Pin



(E)
Seat Right Side of saw onto stand between stand and Register Angle

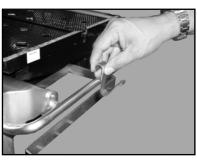


(F) Reinstall the Water Basin

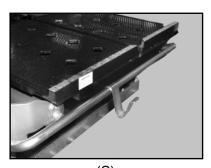
TABLE CLIP:



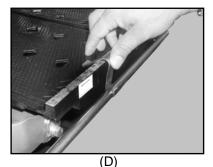
(A) Slide table to the front



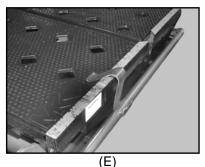
(B) Snap hook end of clip



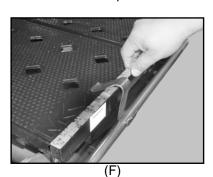
(C) Ensure that clip is secure



Swing clip over the backstop of the Cutting Table



The table is secured



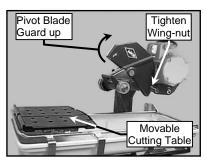
Move table to ensure it is secured in place

ASSEMBLY:

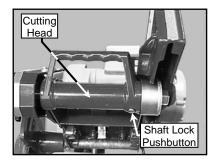
Follow the assembly instructions to prepare your MK-101 for operation.

1. Diamond Blade Installation:

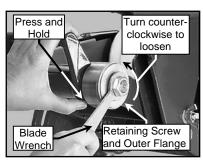
NOTE: When installing the Retaining Screw, do not "cross-thread" and DO NOT over tighten the screw.



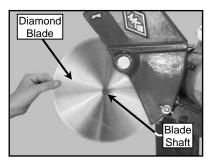
(A)
Position Movable Cutting Table
to the front of the saw and
raise the Blade Guard



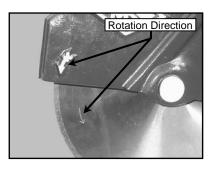
(B)
Locate the Shaft Lock
pushbutton on the underside
of the Cutting Head



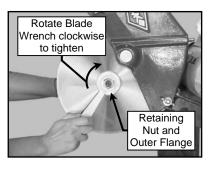
(C)
Depress and hold the Shaft Lock
pushbutton and remove Retaining
Screw and Outer Flange using
the Blade Wrench



(D)
Install Diamond Blade
onto Blade Shaft



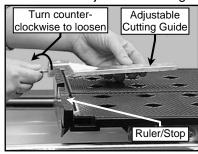
(E)
Verify the Blade is seated on the Blade Shaft and direction of rotation is correct



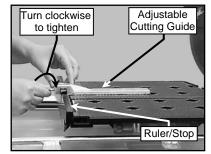
(F)
Install Retaining Nut and Outer
Flange, depress and hold the
Shaft Lock pushbutton
and Tighten

2. Adjustable Cutting Guide Installation:

NOTE: The Adjustable Cutting Guide can be used on either side of the Diamond Blade.

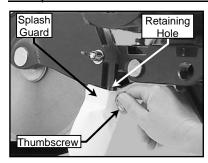


(A)
Loosen Adjustable Cutting
Guide retaining thumbscrew
and place it over the Movable
Cutting Table Ruler/Stop

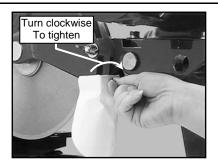


Place the Adjustable Cutting
Guide onto the Movable Cutting
Table Ruler/Stop and tighten
the retaining thumbscrew

3. Splash Guard Installation:

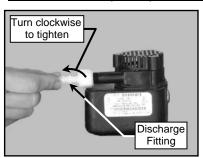


(A)
Install the retaining thumbscrew through the washer and Splash Guard then align to the hole found on back of the Blade Guard

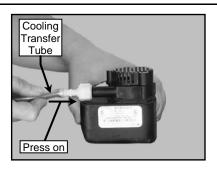


(B)
Install the Splash Guard onto the Blade Guard

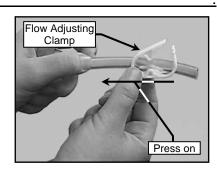
4. Water Pump Preparation:



(A) Install Water Pump Discharge Fitting



(B)
Press one end of the Cooling
Transfer Tube onto the Water
Pump Discharge Fitting

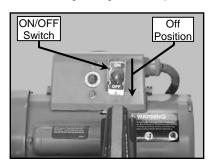


(C)
Slide Cooling Flow Adjusting
Clamp onto the Cooling
Transfer Tube

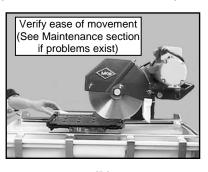
SETUP:

1. Pre-start Inspection:

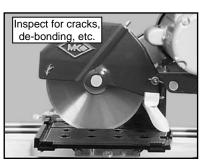
Prior to beginning work, a pre-start inspection of the saw should be performed.



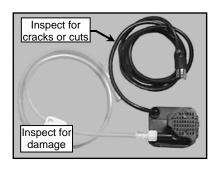
(A)
Ensure the ON/OFF Switch is in the OFF position



(B)
Verify the Movable Cutting Table moves freely



(C)
Inspect the Diamond Blade for damage – verify the blade is correct for the material being cut



(D)
Inspect the Pump Assembly
for damage – ensure the cord
is free of cracks or cuts

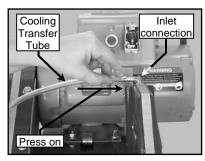


(E)
Inspect the MK-101
for damage – ensure the cord
is free of cracks or cuts

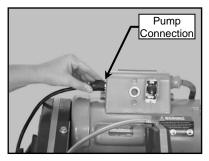
2. Connecting the Water Pump:

- AWARNING 1. To prevent the possibility electrical shock, the MK-101 MUST be de-energized when connecting the Water Pump.
 - 2. To prevent the possibility of electrical shock, use only MK Diamond qualified replacement parts

NOTE: To prevent pump damage, the Water Pump must be disconnected if cutting with a Dry Blade.



(A)
Connect the Cooling Transfer
Tube to the inlet connection
of the Blade Guard



(B)
Connect the Water Pump power cord to the connection found on the back of the motor

3. Water Pump Setup for Operation:

The Water Pump can be setup for operation in two ways, External Water Source or Re-circulation.

NOTE: If using a dry blade for operation, DO NOT connect the water pump.



(A) Place Water Pump in Water Pan



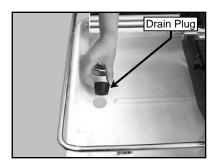
(B)
Place Water Pump Clamp as shown



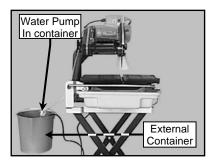
(C)
Secure Clamp with ¼-20
wingscrews and nuts.

I. External Water Source:

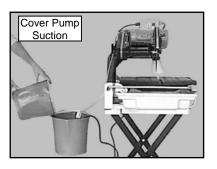
This is the preferred method of cooling.



(A) Remove the Drain plug



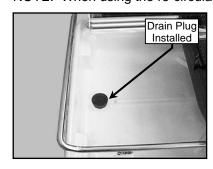
(B)
Place the Water Pump
In an external container



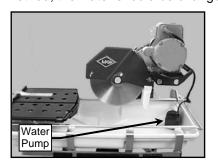
Fill the external container until water completely covers the Water Pump suction

II. Re-circulation:

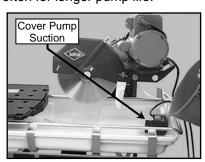
NOTE: When using the re-circulation method, the water should be changed often for longer pump life.



(A)
Ensure the Drain Plug is
Installed in the Water Basin



(B)
Place the Water Pump in the back of the Water Basin.



4 MK-101 PRO SERIES Setup for Operation:

- **ACAUTION** 1. Before powering or starting, check for damage that could prevent this equipment from proper operation or performing it's intended function. Check for binding and alignment of moving parts. Check for damaged, broken, or missing parts.
 - 2. Verify the On/Off switch is in the OFF position.
 - 3. Before connecting the MK-101 to a power supply, be sure the voltage, cycle and phase of the job site power source meet the requirements of TABLE 3

VOLTAGE:	115v
CYCLE:	60hz
PHASE:	1-phase

TABLE 3

- 4. If using an extension power cord, made sure, the length and wire gauge correspond to the requirements listed in TABLE 1 on page 9. An extension power cord that is too small in wire gauge (diameter), or too long in length, will cause the motor to overheat and could cause premature failure.
- 5. Use an approved Ground Fault Circuit Interrupter (GFCI)
- 6. Do not cover the motor vents as this could lead to motor overheating.

NOTE: In order to avoid breaker tripping, a 20-amp circuit breaker should be used.

Portable Generator:

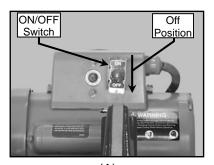
If using a portable generator, ensure the generator meets the following minimum requirements:

5 KW

120/240 volts

41.7/20.8 amps

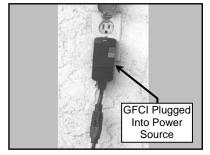
Single Phase



(A)
Ensure the ON/OFF Switch is in the OFF position



(B) Plug MK-101 into the GFCI



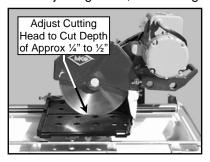
(C)
Plug the GFCI into the
Power source *

5. Set Cutting Depth:

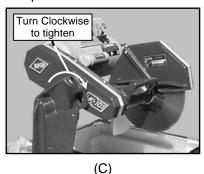
ACAUTION When loosing the Cutting Head Adjusting Knob, the Cutting Head will pivot down unless held.



(A)
Loosen Cutting Head
Adjusting Knob



(B)
Set cutting depth approximately
1/4 to 1/2 inch below the surface
of the Movable Cutting Table



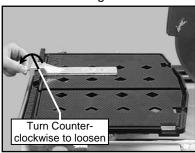
Ensure the Adjusting Knob is tight

^{*} A GFCI wall socket is the preferred protective device.

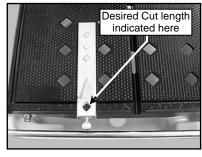
ADJUSTMENT and OPERATION:

1. Cutting Straight Edges:

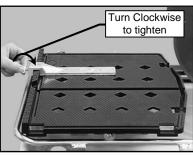
△CAUTION DO NOT FORCE THE TOOL. It will do the job better and safer at the rate for which it was designed.



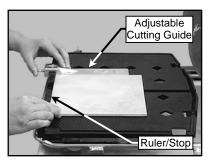
(A)
Loosen the Adjustable Cutting
Guide retaining thumbscrew



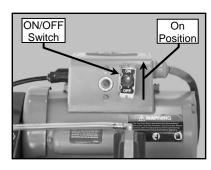
(B)
Position the Adjustable Cutting
Guide to desired cut length
indicated inside the diamond



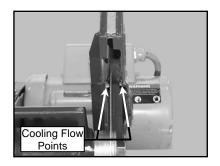
(C)
Tighten the retaining thumbscrew



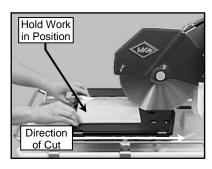
(D)
Place the tile against the
Ruler/Stop and Cutting Guide



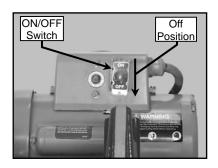
(E) Turn the motor ON



(F)
Verify proper cooling flow on both sides of the blade (See Maintenance Section to increase/decrease flow)



(G) Perform the cut

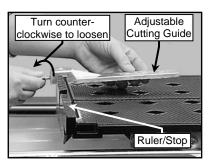


(H)
Turn the motor OFF when
work is complete

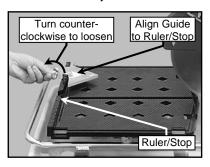
2. Diagonal Cutting:

NOTE: To cut diagonal, the Dual 45° Flat Angle Guide (MK Diamond Part No. 134557-MK) should be used.

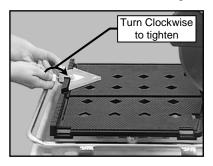
△CAUTIONDO NOT FORCE THE TOOL. It will do the job better and safer at the rate for which it was designed.



(A)
Remove the Adjustable Cutting
Guide

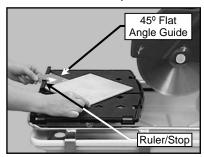


(B)
Place the Dual 45° Flat Angle
Guide on the Ruler/Stop

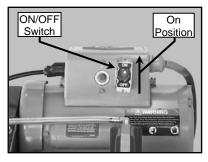


(C)
Position the Dual 45° Flat Angle
Guide and tighten the
retaining thumbscrew

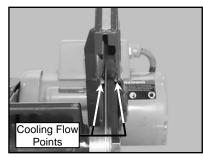
NOTE: If Cutting the tile in two equal halves, align the tile in the V-notch of the Movable Cutting Table Ruler/Stop.



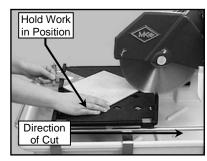
(D)
Position the tile against the Dual
45° Flat Angle Guide and the
Ruler/Stop



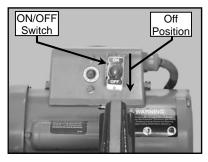
(E) Turn the motor ON



(F)
Verify proper cooling flow on both sides of the blade (See Maintenance Section to increase/decrease flow)



(G) Perform the cut

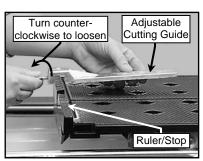


(H)
Turn the motor OFF when
work is complete

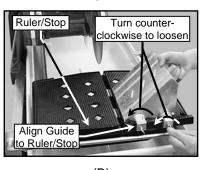
3. 45° Miter Cutting:

NOTE: To cut 45° Miters, the 45° Bullnose Miter Guide (MK Diamond Part No. 134585-MK) should be used.

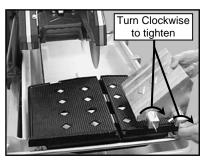
△CAUTIONDO NOT FORCE THE TOOL. It will do the job better and safer at the rate for which it was designed.



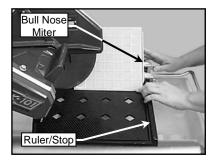
(A) Remove the Adjustable Cutting Guide



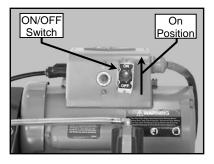
(B)
Place the 45° Bullnose Miter
Guide on the Ruler/Stop



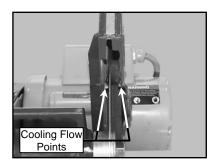
(C)
Position the 45° Bullnose Miter
Guide and tighten the
retaining thumbscrew



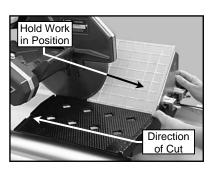
(D)
Position the tile on the 45°
Bullnose Miter Guide and the
Ruler/Stop



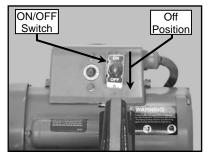
(E)
Turn the motor ON



(F)
Verify proper cooling flow on both sides of the blade (See Maintenance Section to increase/decrease flow)



(G) Perform the cut

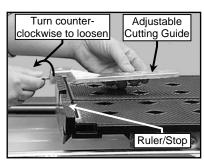


(H)
Turn the motor OFF when
work is complete

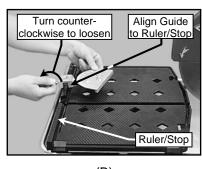
4. Off-angle Cutting:

NOTE: To cut angles other than 45° angles or Miters, a 90° Protractor (MK Diamond Part No. 134569-MK) should be used.

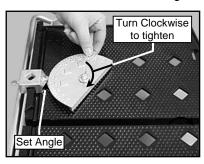
ACAUTIONDO NOT FORCE THE TOOL. It will do the job better and safer at the rate for which it was designed.



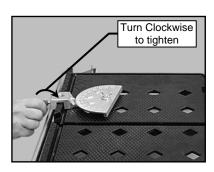
(A) Remove the Adjustable Cutting Guide



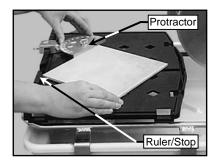
(B) Place the 90° Protractor on the Ruler/Stop



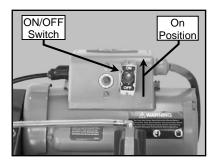
Set the desired angle and tighten the thumbscrew



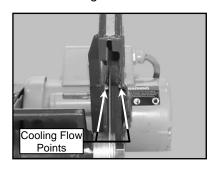
(D)
Position the 90° Protractor
and tighten the
retaining thumbscrew



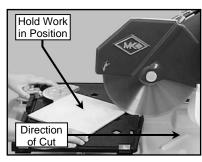
(D)
Position the tile against the 90°
Protractor and the Ruler/Stop



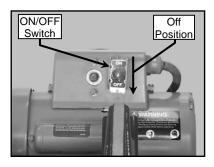
(E) Turn the motor ON



(F)
Verify proper cooling flow on both sides of the blade (See Maintenance Section to increase/decrease flow)



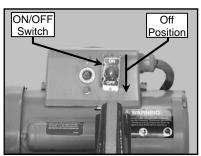
(G) Perform the cut



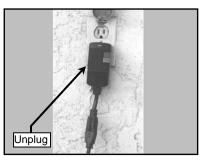
(H)
Turn the motor OFF when
work is complete

5. Adjusting the Cutting Head:

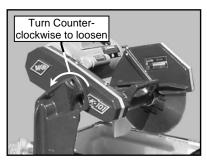
ACAUTION The Cutting Head is heavy! Care must be used when changing the position of the Cutting Head.



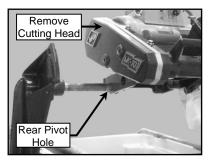
(A)
Ensure the ON/OFF Switch is in the OFF position



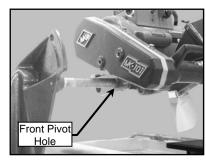
(B)
Unplug the GFCI from the power source*



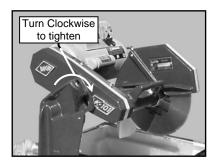
(C) Remove Adjusting Knob



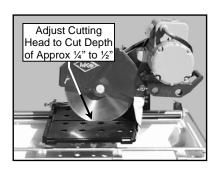
(D)
Remove the Cutting Head from
The rear pivot hole



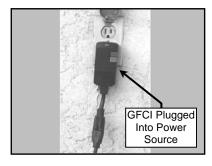
(E)
Install the Cutting Head onto the front pivot hole



(F)
Install the Adjusting Knob



(G)
Set cutting depth approximately
1/4 to 1/2 inch below the surface
of the Movable Cutting Table

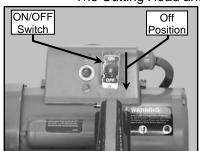


(H) Plug the GFCI into the power source*

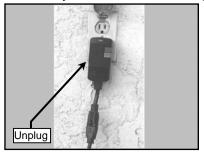
^{*} A GFCI wall socket is the preferred protective device.

6. Adjusting the Post for Maximum Cutting Length:

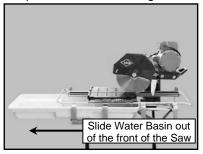
ACAUTION The Cutting Head and Post are heavy! Use care when changing the position of the Cutting Head.



(A)
Ensure the ON/OFF Switch is in the OFF position

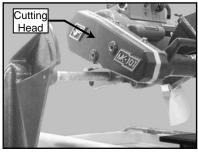


(B)
Unplug the GFCI from the power source*

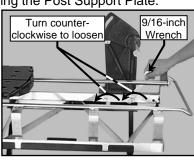


(C) Remove Water Basin

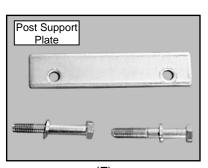
△CAUTION Hold the Post when removing the Post Support Plate.



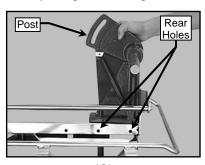
(D)
Remove the Cutting Head (See
Adjusting the Cutting Head



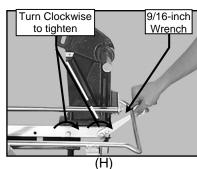
(E) Loosen the Post Support Plate and retaining bolts



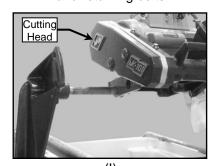
(F)
Remove the Post Support Plate
and retaining bolts



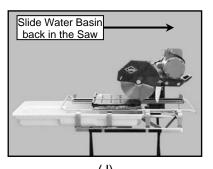
(G)
Relocate the Post to the rear
Post retaining holes



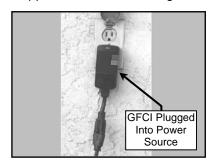
Install and tighten the Post Support Plate and retaining bolts



(I)
Install the Cutting Head (See
Adjusting the Cutting Head



(J) Install the Water Basin



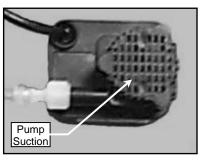
(K)
Plug the GFCI into the power source*

^{*} A GFCI wall socket is the preferred protective device.

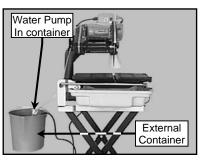
7. Cleanup:

NOTES: 1. If an external water source was used, steps A through C may be skipped.

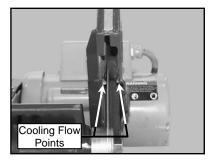
2. Dispose of waste water in accordance with applicable Federal, State and Local laws.



(A)
Clean the Water Pump suction of all debris

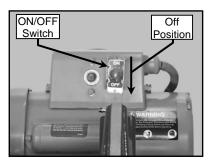


(B)
Place the Water Pump
In an external container

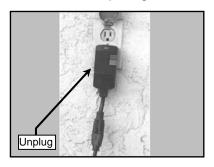


(C) Run the MK-101 until clear water is seen at the blade cooling ports (Approx. 1 minute)

△CAUTION Ensure the saw is disconnected before completing the remainder of the cleanup process.



(D) Ensure the ON/OFF Switch is in the OFF position



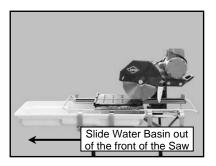
(E) Unplug the GFCI from the Power source



(F) Unplug MK-101 from the GFCI



(G) Clean the MK-101 with soap and clean water



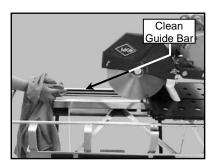
(H) Remove the Water Basin from the MK-101



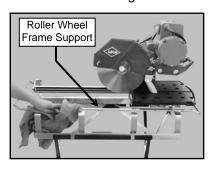
(I) Clean the Water Basin

^{*} A GFCI wall socket is the preferred protective device.

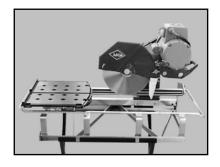
△CAUTION Ensure water is not forced into the motor casing when cleaning.



(J) Clean the Movable Cutting Table Guide Bar



(K) Clean the Movable Cutting Table Roller Wheel Frame Support

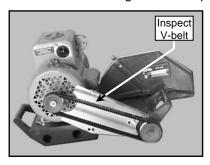


(L) Clean the remainder of the MK-101

MAINTENANCE:

1. New Maintenance:

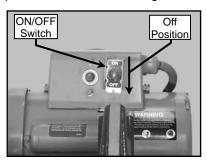
Perform the following after initial purchase and operation of the MK-101.



(A) Check and adjust V-belt tension Following 1st 48 hours of operation (See V-belt Inspection)

2. Maintenance Following Use:

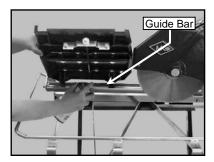
To extend the life of the MK-101, the following procedure should be performed after each use. Lubricate all points listed below with light oils such as, 3 in 1, WD-40, etc.



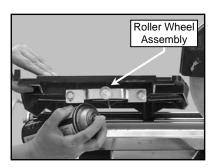
(A)
Ensure the ON/OFF Switch is in the OFF position



(B) Unplug MK-101*



(C) Lubricate the Guide Bar

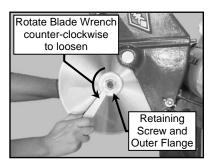


(A) Lubricate the Roller Wheel Assembly

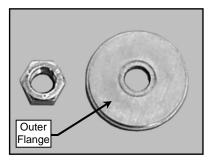
^{*} A GFCI wall socket is the preferred protective device.

3. Monthly Maintenance:

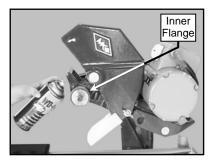
The following maintenance should be performed Monthly.



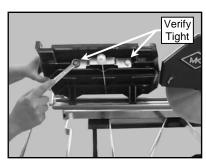
(A) Remove the Diamond Blade



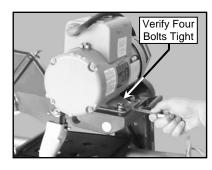
(B) Lubricate the Outer Flange and Retaining-nut



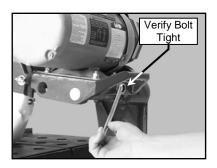
(C) Lubricate the Inner Flange



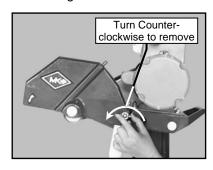
(D)
Verify the Roller Wheel
Assembly is tight and in
good condition



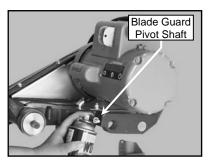
(E) Verify all motor mounting Bolts are tight



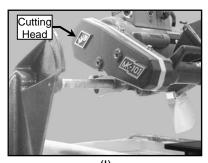
(F)
Verify the Motor Adjustment
Strap is tight



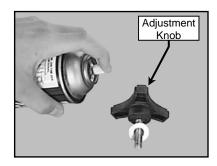
(G) Remove the Blade Guard



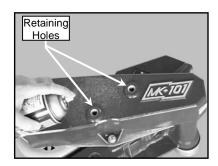
(H) Lubricate the Blade Guard Pivot Shaft



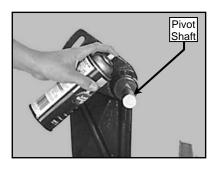
(I)
Remove the Cutting Head (See
Adjusting the Cutting Head)



(J) Lubricate the Cutting Head Adjustment Knob



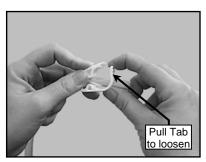
(K)
Lubricate the Cutting Head
Adjustment Knob retaining holes



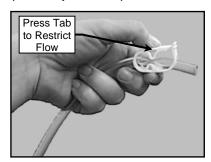
(L) Lubricate the Cutting Head Pivot Shaft

4. Flow Adjustment:

NOTE: If flow to the diamond blade requires adjustment, perform the following actions.



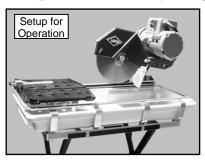
(D)
Increase cooling flow by
releasing the Flow Adjusting
Clamp



(E)
Reduce cooling flow by
Pressing down on the Flow
Adjusting Clamp

1. Blade Dressing:

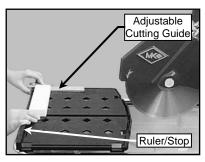
Like most cutting instruments, a diamond blade performs best when it is dressed. Over time and use, diamonds on the outer edge of the blade will become smoothed or "glazed" over. This will reduce grinding efficiency and may cause the blade to "wander" or bend giving the illusion of an alignment problem. When this occurs, the blade will need to be dressed. The diamond blade can be dressed using the MK Dressing Stick (part number 152972) and by following the steps below.



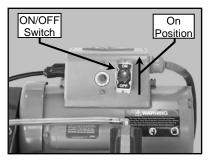
(A)
Setup the MK101 for operation
(See Setup, Adjustment
and Operation)



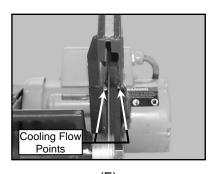
(B) Set the Adjustable Cutting Guide to cut a 1/16-strip



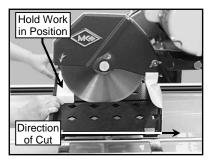
(C) Position the Dressing Stick



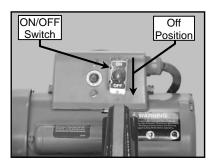
(D) Turn the motor ON



(E)
Verify proper cooling flow on both sides of the blade (See Maintenance Section to increase/decrease flow)



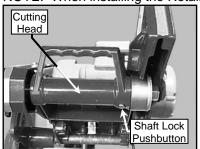
Cut the Dressing Stick 7 or 8 times to dress the Blade



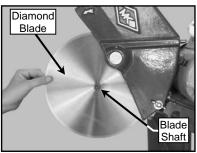
(G) Ensure the ON/OFF Switch is in the OFF position

2. Diamond Blade Change-out:

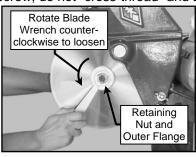
NOTE: When installing the Retaining Screw, do not "cross-thread" and DO NOT over tighten the screw.



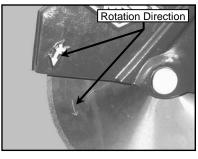
(A)
Locate the Shaft Lock
pushbutton on the underside
of the Cutting Head



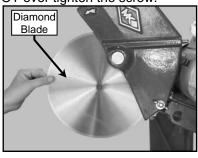
(D)
Install the Diamond Blade
onto Blade Shaft



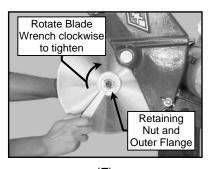
(B)
Remove Retaining Nut and Outer
Flange, depress and hold the
Shaft Lock pushbutton and loosen



(E)
Verify the Blade is seated on the Blade Shaft and direction of rotation is correct



(C) Remove the Diamond Blade



(F)
Install Retaining Nut and Outer
Flange, depress and hold the Shaft
Lock pushbutton and tighten

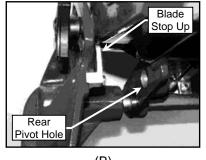
3. Cutting Head Stop Installation:



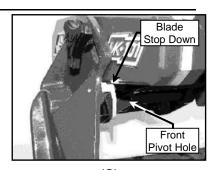
(A)
Remove the Cutting Head
(See Adjusting the Cutting Head)



(D)
Reinstall the Cutting Head
(See Adjusting the Cutting Head)



(B)
Install Head Stop UP, when the
Cutting Head is installed on the
rear Pivot Hole

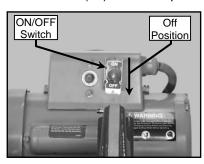


(C)
Install Head Stop DOWN, when
the Cutting Head is installed on
the forward Pivot Hole

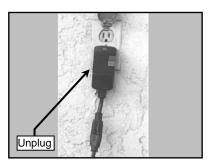
4. V-Belt Inspection, Adjustment and Replacement:

The MK-101 is designed with a power transmission V-belt. In order to ensure the MK-101 operates at peak efficiency, the V-belt should be inspected monthly, and changed if the V-belt shows damage and/or excessive wear.

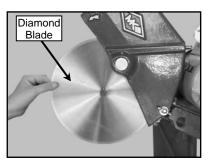
NOTE: 1. When a new belt is installed, it should be inspected and re-tensioned after the first forty-eight (48) hours of operation.



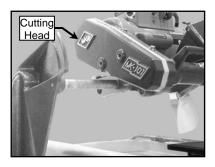
(A) Ensure the ON/OFF Switch is in the OFF position



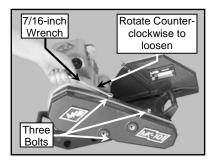
(B)
Unplug the GFCI from the
Power source*



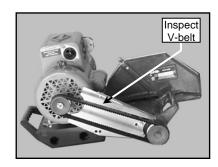
(C) Remove the Diamond Blade



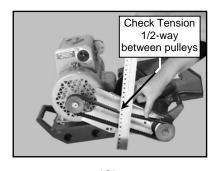
(D) Remove the Cutting Head (See Adjusting the Cutting Head



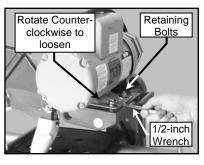
(E) Remove the Belt Guard



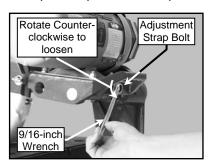
(F)
Inspect the V-belt for cracks,
Fraying, separation and wear. Go
to step H if replacement required



(G)
Check the belt for proper tension if tension is correct, go to step R (proper tension 1/8-inch)

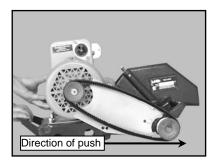


(H)
Loosen the motor mounting
bolts, if re-tensioning only go
to step N



(I)
Loosen the Motor Adjustment
Strap

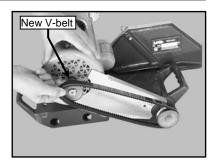
^{*} A GFCI wall socket is the preferred protective device.



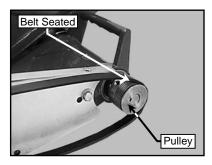
(J)
Push the motor toward the front of the Cutting Head to loosen the V-belt



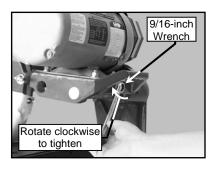
(K) Remove the V-belt



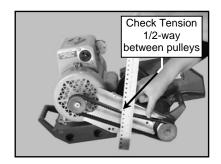
(L) Install the new V-belt (MK Diamond Part No. 158194)



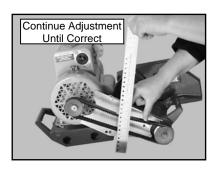
(M) Verify the V-belt is seated in the grooves of both pulleys



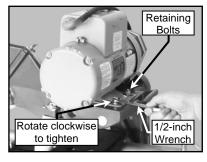
(N)
Tighten the Motor Adjustment
Strap to remove slack



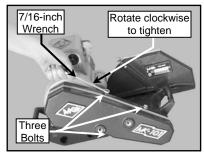
(O) Check V-belt tension (proper tension 1/8-inch)



(P)
Repeat steps N and O until
proper V-belt tension
is achieved



(Q) Tighten the motor mounting bolts



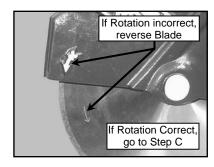
(R) Install the Belt Guard

TROUBLESHOOTING:

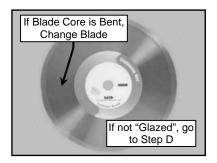
1. Blade will not cut properly:



(A)
Check for Smoothness
or "Glazing" (Dress blade
if needed)



(B) Check for proper blade rotation



(C) Ensure the Blade Core is not bent



(D)
Verify the blade is correct for the material being used

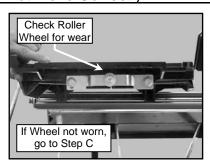
Return to MK Diamond for Repair

(E) Return to MK Diamond

2. Movable Cutting Table Does Not Move Correctly:



(A)
Check the Guide Bar and
Frame for cleanliness –
clean if dirty

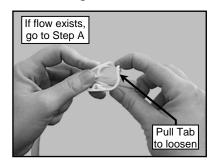


(B)
Check the Movable Cutting Table
Roller Wheels for wear –
replace if necessary

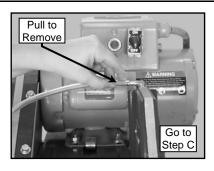
Return to MK Diamond for Repair

(C) Return to MK Diamond

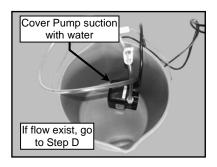
3. Cooling Flow:



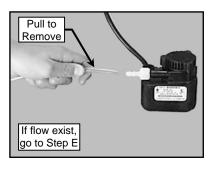
(A) Verify the cooling flow Adjusting Clamp is open



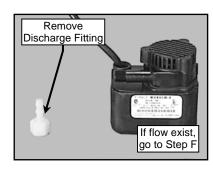
Remove the Cooling Transfer Tube from the Blade Guard inlet



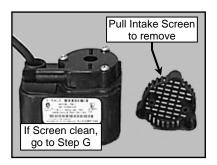
Place Pump into a bucket of water and check flow



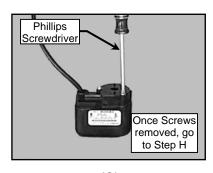
(D)
Remove the Cooling Transfer
Tube and check for flow



(E)
Remove the Pump Discharge
Fitting and check for flow



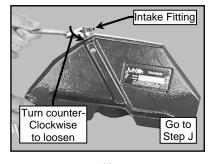
(F)
Remove the Pump Intake
Screen and check for debris –
clean the screen if necessary



(G) Remove the 3 Pump Casing Retaining Screws

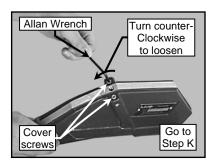


(H)
Remove the Pump Casing and check for restriction in the casing.
Check the Impeller damage

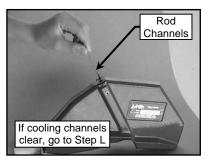


(I) Remove the Blade Guard Intake Fitting

NOTE: "Rodding" cooling channels is performed by inserting a small wire rod through the cooling inlet on top of the Blade Guard and directing the rod out through each of the cooling flow tubes located on the underside o the Blade Guard. The cooling channels should be "rodded" until all ports are free of foreign debris.



(J) Remove the Cooling Channel cover screws

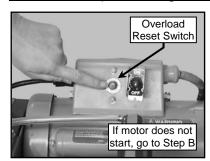


(K) Rod the Cooling Channels and then recheck flow

Return to MK Diamond for Repair

(L) Return to MK Diamond

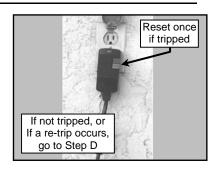
4. Blade Stops Turning:



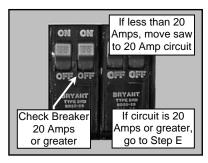
(A) Allow the motor to cool and depress motor Overload Reset Switch



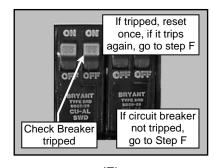
(B)
Verify all plugs are fully installed*



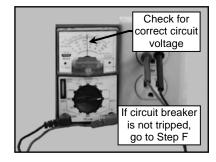
(C)
Check to see if the Ground
Fault Circuit Interrupter (GFCI)
is tripped*



(D)
Verify the circuit breaker is at least 20 amps – if not, move to a 20-amp circuit



(E)
Verify circuit breaker is not tripped, if it is tripped – reset the circuit breaker once



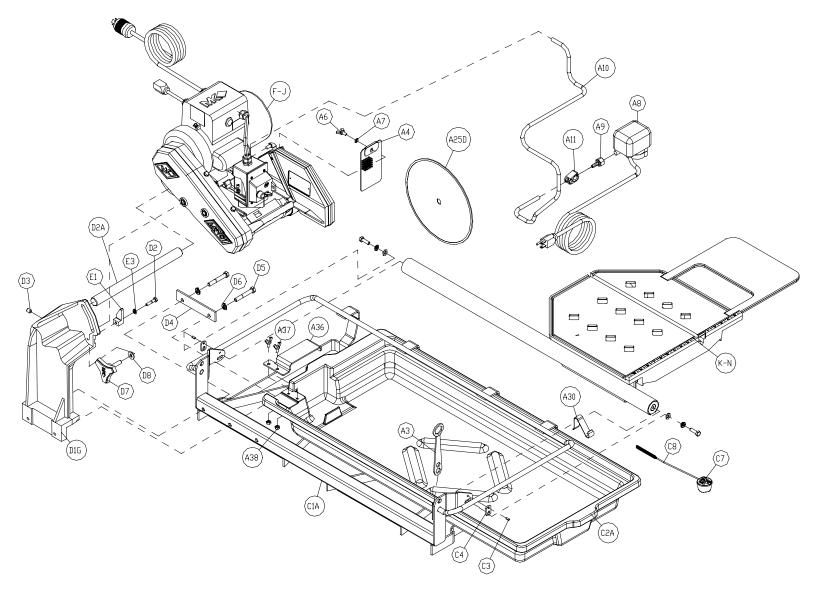
(F)
Check power source voltage is
115V, if it is not 115v –
move to another circuit

Return to MK Diamond for Repair

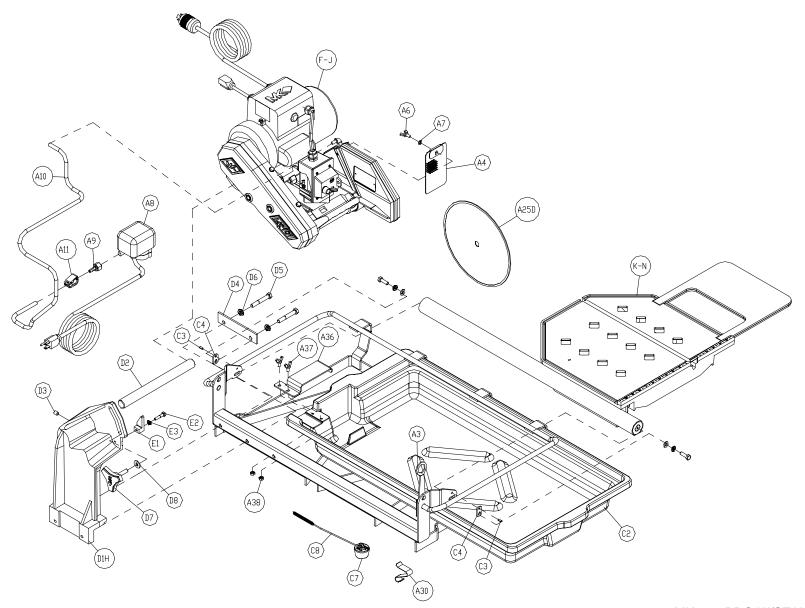
(G) Return to MK Diamond

^{*} A GFCI wall socket is the preferred protective device.

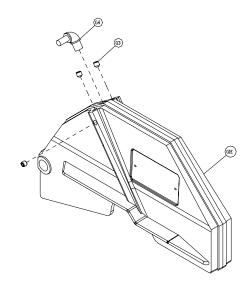
EXPLODED VIEW:



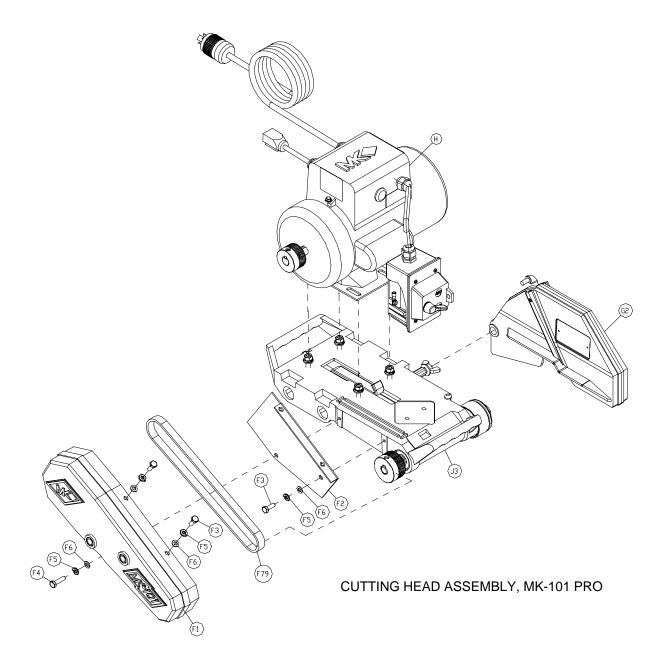
MK-101 PRO 24 SAW W/STAND



MK-101 PRO W/STAND



BLADE GUARD CASTING, MK-101 PRO



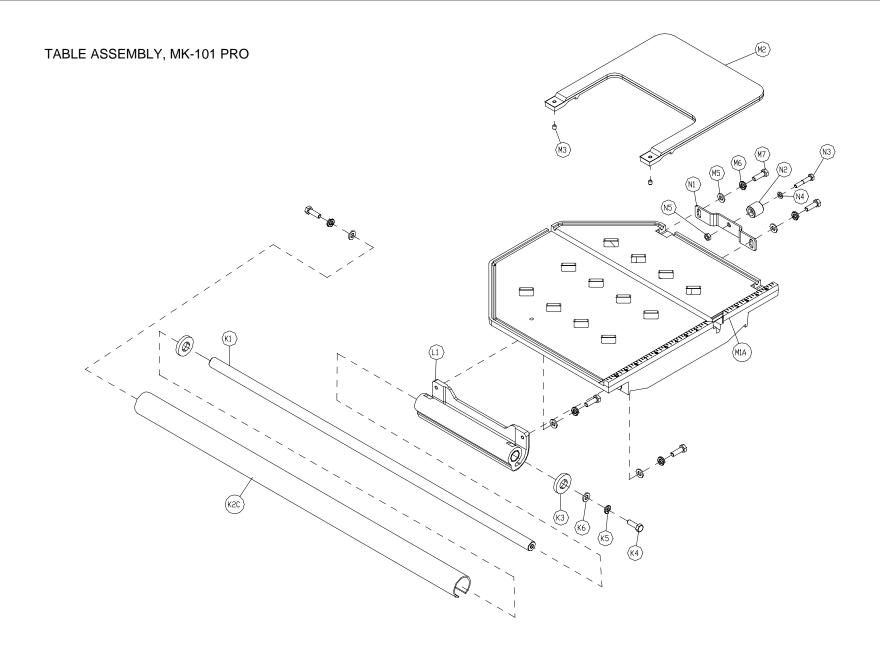
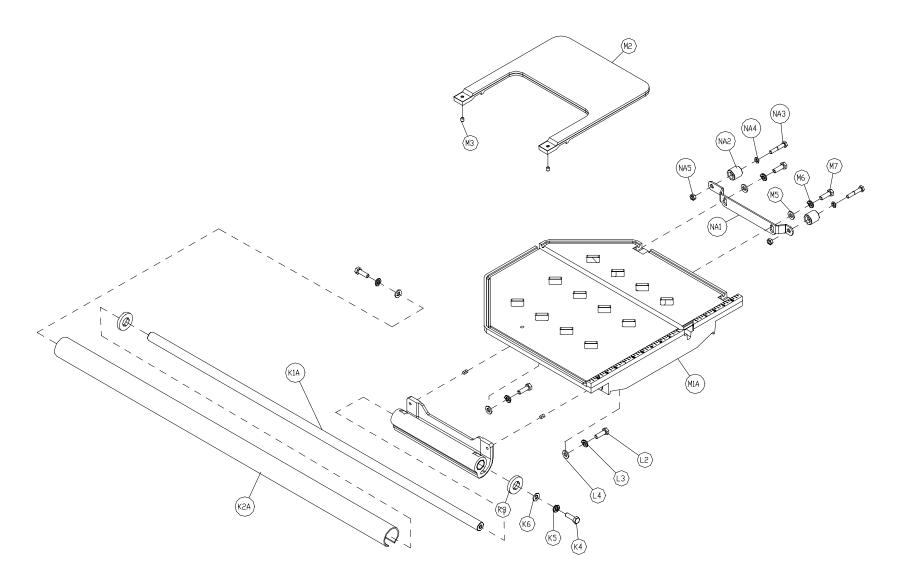
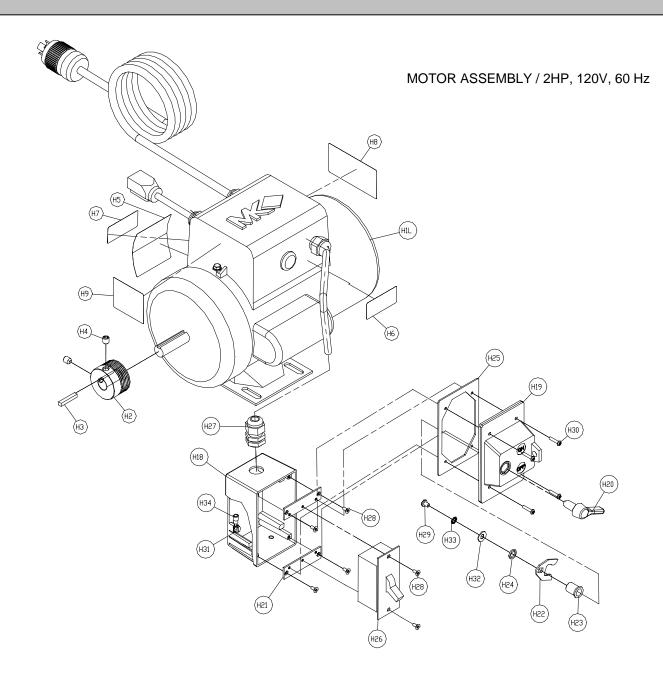


TABLE ASSEMBLY, MK-101 PRO 24





PARTS LIST:

Item	Description	Qty	Part #
Α	Accessories		
A1	Carton, Accessory Pack, 101	1	153366
A1A	Carton, Accessory Pack, PL-101	1	154176
A2	Foam, Accessory Pack Carton	1	154022
A3	Wrench, 15/16 Closed End	1	134684
A4	Guard, Splash	1	160310
A5	-	_	-
A6	Wing screw, 1/4-20 X 1/2	1	151888
Α7	Washer, 1/4 SAE Flat	1	151915
A8	Pump, Water, G-150A	1	151271
A8A	Pump, Water, G-300V, 230V	1	151714
A9	Fitting, Plastic, 1/4 FNPT X 1/4 BARB	1	128397
A10	Hose, Vinyl, 1/4 ID	6'	132951
A11	Clamp, Flow, 1/4-1/2	1	154394
A13	Rip Guide, Large Die Cast	1	159751
A14	Miter, Large Bullnose	1	153201
A15	Guide, Dual Flat 45	1	134577
A16	Protractor, Tile Saw	1	159429
A17	Dressing Stick, 8 X 2 X 1, 60 Grit	1	152792-RW
A18	Extension, 2.25 X 3/4 Dia. Belt Guard	1	155711
A19	Cord, Twist-Lock GFCI, 120V/15A	1 1	157421
A19 A20	Owner's Manual, MK-101		
	,	1	153754
A20A	Owner's Manual, MK-101 Tracker Saw	1 1	159701
A20B	Training, Pkg, 101R, HM Depot	1 1	158739
A20C	Owner's Manual, MK-101 Pro Series	1	158808
A21	Card, MK Warranty Registration	1	155037
A21A	Card, Rental Saw Warranty Registration	1 1	155666
A22	Label, Do Not Return	1	157063
A23	Sell Sheet, Tile Accessory	1	156915
A24	Stand, Folding, Universal, w/carton (156035)	1	151889
A24A	Stand, Folding, 101Pro	1 1	153331
A24B	Stand, with Caster	1	160197
A25	Blade, MK-100, 10 X 060 X 5/8	1	154380
A25A	Blade, MK-200/GOLD, 10 X 060 X 5/8	1	137166
A25B	Blade, MK-215, 10 X 060 X 5/8	1	128074
A25C	Blade, DT170, 10 X 060 X 5/8	1	DT154380
A25D	Blade, MK-225, 10X050X5/8, 4mm Saws	1	160593
A26	Label, Tile saw Serial #, No Mark	1	157249-01
A26A	Label, Tile saw Serial #, UL Mark	1 1	157249-02
A26B	Label, Tile saw Serial #, CSA Mark	1 1	157249-03
A26C	Label, Tile saw Serial #, UL/CSA Mark	1 1	157249-04
A26D	Label, PL Serial #	1 1	157458
A26E	Tag, Serial Number, Blank	1	157500
A27	Plug, 10A Australia	1	156267
A28	Cord, L5-15x25' Extension	1	158111
A29	Miter, Small Bullnose	1	134585
A30	Clip, Table Lock, 30 deg		160331-1
A31	Clip, Table Lock, 50 deg		160331-3
A32	Drive Screw, Round Head, #7 x 5/16	2	157849
A33	Holder, Tool Accessory	1	160155
A33A	Holder, Tool Accessory - Orange	1	161155-HD

405	L'I A - Halla Mar al Olara	1	450540
A35	Lid, Acc Holder Manual-Clear		150512
A36	Clamp, Holding, Pump	1	162054
A37	Screw, Wing, 1/4-20x1/2	2	151888
A38	Nut, Hex, 1/4x20	2	151893
С	Frames	-	-
C1	Frame, 101	1	153003
C1A	Frame, Pro-24	1	153209
C2	Pan, Plastic, 101	1	150634
C2A	Pan, Plastic, Pro-24	1	153262
C2B	Pan, Stainless Steel	1	150634S
C3	Pin, 3/16 X 3/8 Roll	2	151783
C4	Plate, Adjustment	2	151758
C5	Plug, Rubber Drain	1	153439
C7	Drain Plug, HD Rental	1	159529
C8	Strap, 9" Drain Plug	1	
	Strap, 9 Drain Plug	1	159530
D	Posts	-	-
D1	Post, 101, MK Red	1	155670
D1A	Post, 101, Blue	1	155670-BL
D1B	Post, 101, BM Red	1	155670-BM
D1C	Post, 101, Orange	1	155670-OR
D1D	Post, DC, 101, MK Red	1	158438
D1E	Post, DC, 101, Blue	1	158438-BL
D1F	Post, DC, 101, BM Red	1	158438-BM
D1G	Post, DC, 101, Orange	1	158438-OR
D1H	Post, 101Pro	1	158405
D1J	Post, 101Pro, Blue	1	158405-BL
D1K	Post, 101Pro, Orange	1	158405-BL
D2	Shaft, 10.63" Pivot, 101	1	153254
D2A	Shaft, 12.88" Pivot, 101PRO	1	155530
D3	Screw, 3/8-16 X 1/2 Socket Head Set	1	153710
D4	Plate, Support	1	155671
D5	Screw, 3/8-16 X 2 1/2 Hex Head Cap	2	156030
D6	Washer, 3/8 Split Lock	2	150925
D7	Knob, 3/8-16 X 1.5 MK Adjustment	1	156770-02
D8	Washer, 3/8 SAE Flat	1	150923
D9	Plastic Post Cover	1	160157
Da	Plastic Post Cover	'	100137
- -	Oten Cutting Head		
E	Stop, Cutting Head	-	4 E 7 7 0 0 NAI /
-	Kit, Stop, 10" Cutting Head	1	157728-MK
E1	Stop, 10" Cutting Head	1	157728
E2	Screw, 1/4-20 X 1 1/4 Hex Head Cap	1	157145
E3	Washer, 1/4 Split Lock		152591
E4	Sheet, Cutting Head Stop Instruction	1	157728-IS
F	Belt Guards	-	-
F1	Belt Guard, MK-101	1	158319-01
F1A	Belt Guard, PL-101, Barranca		158319-BD
F1B			158319-BM
F1C	Belt Guard, MK-101, Orange		158319-OR
F1D	Belt Guard, PL-101, Blue	1	158319-BL
F1E	Belt Guard, MK-115	1	158319-15
F2	Bracket, Inner Belt Guard, 100/101	1	158611
F3	Screw, 1/4-20 x 3/4 Hex Head Cap	3	152370
	1 00.011, 1/1 20 X 0/1 1 10X 11044 Oup	U	102010

F4	Screw, 1/4-20 x 1 Hex Head Cap	1	152676
F5	Washer, 1/4 Split Lock	4	152591
F6	Washer, 1/4 SAE Flat	4	151915
F7	Belt, 260J6 Micro-V	1	158194
	Doit, 20000 Miloto V	'	100101
G	Blade Guard Assemblies	_	_
G1	Blade Guard, 101/115	1	153659
G1A	Blade Guard, BD-101	1 1	153659-BD
G1B	Blade Guard, DT-101	1	153659-DT
G1C	Blade Guard, MK-101Rental, Orange	1 1	155303
G1D	Blade Guard, PL-101 Rental, Blue	1	155303-BL
G1E	Blade Guard, 101/115Pro	1	155770
G2	Tube, Water	2	155389
G3	Screw, 5/16-18 X 1/2 Socket Head Set	3	152607
G4	Elbow, 1/8 MNPT X 1/4 BARB 90° Brass	1	154652
Н	Motors	-	-
H1	Motor, 1-1/2HP\120V\60Hz	1	160127
H1A	Motor, 1-1/2HP\120v\60Hz, with L5-15P	1	151473-TL
H1B	Motor, 1-1/2HP\120V\60Hz, No Logo	1	155850
H1C	Motor, 1-1/2HP\230V\50Hz	1	155350
H1D	Motor, 2HP\120V\60Hz	1	155704
H1E	Motor, 2HP\230V\50Hz	1	156315
H1F	Motor, 2HP\120or240V\60Hz	1	155849
H1G	Motor, 1-1/2HP\120or240V\50Hz	1	155442
H1H	Motor, 2HP\120V\60Hz, No Logo	1	155704-PL
H1J	Motor, 1-1/2HP\120V\60Hz, for 30A switchbox	1	159627
H1K	Motor, 1-1/2HP\120v\60Hz, for 30A switchbox, with L5-15P	1	159627-TL
H1L	Motor, 2HP\120V\60Hz, for 30A switchbox	1	160484
H2	Pulley, 6J17 X 5/8 Bore	1	158214
H3	Key, 3/16 x 3/16 x 1-1/8 Square	1	150344
H4	Screw, 5/16-18 X 3/8 Socket Head Set, Cup Point	2	157083
H5	Label, Warning most motor, 2 3/4 X 2 7/16	1	155672
H6	Label, Caution, GFCI, 1 X 2 1/8	1	155678
H7	Label, Caution, 5 Amp Max., 1 X 2-1/8	1	154822
H8	Label, Warning, Read Owner's Manual, 1-3/4 X 3-3/8	1	155806
H9	Label, MK Service Info., 2 1/8 X 1-13/16	1	155038
H10	Label, MK Checklist		157459
H10A H10B	Label, HD Checklist Label, EH Checklist	1 1	155231 155301
H10C	Label, LW Checklist		157460
H11	Screw, 1/4-20 X 1 Hex Head Cap	2	152676
H18	Box, Top Entry, 30A Switch	1	159487
H19	Cover, 30A Switch Box	1	159539
H20	Lever, Actuator, 30A Switch Box	1	159540
H21	Plate, Mounting, 30A Switch	2	159489
H22	Lever, On/Off, 30A Switch Box	1	159490
H23	Bushing, Nylon, 30A Switch Box		158799
H24	Seal, Urethane, 30A Switch Box		159492
H25	Gasket, 30A Switch Box		159491
H26	Switch, 30A/2HP/120V/DPST		159488
H27	Connector, LTF11 Cord		159582
H28	Screw, 6-32 X 5/16 Flat Head Phillips Machine		159493
H29	Screw, 10-24 X 1/4 Pan Head Phillips Machine	6	159494
H30	Screw, 10-24 X 1/4 Part Head Phillips Machine Screw, 6-32 X 5/8 Pan Head Phillips Machine	4	157393
1100	Jordan, O JZ / J/O F an Fiedu F milips Macmille	7	101000

H31	Screw, 10-24 X 5/16 Slotted Hex Washer Head Grounding	1	159597	
H32	Washer, #10 SAE Flat	1	154369	
H33	Washer, #10 Lock, Internal Teeth	2	158336	
H34	Terminal, 16-14 X #10 Ring, Non-insulated	1	154540	
H35	Receptacle, Pump	1	159828	
H36	Cord, Power	1	159829	
H37	Wire, MK-100/101 Jumper	2	160519	
H38	Label, Home Depot Tool Rental		160602	
J	Cutting Head Subassemblies	-	-	
J1	Cutting Head, DC, 100/101, MK Red	1	158224	
J1A	Cutting Head, DC, 101, Blue	1	158224-BL	
J1B	Cutting Head, DC, 101, BM Red	1	158224-BM	
J1C	Cutting Head, DC, 101, Orange	1	158224-OR	
J2	Pin, Blade Shaft Lock	1	158200	
J3	Spring, Blade Guard Lock	1	158201	
J4	E-Ring, 1/4 Retaining	1	158202	
J5	Bearing, 17mm X 40mm X 12mm Ball (6203-2NSE)	2	137711	
J6	Shaft, Blade 100/101	1	158222	
J7	Flange, 2-3/8 Inner	1	137737	
J8	Flange, 2-3/8 Outer	1	135830	
J9	Nut, 5/8-18 Hex	1	135848	
J10	Pulley, 6J19 X 5/8 Bore	1	158199	
J11	Key, 3/16 x 3/16 x 1 1/8 Square	1	150344	
J12	Screw, 5/16-18 X 3/8 Socket Head Set, Cup Point	2	157083	
J13	Bumper, 1/2 Dia Rubber	1	152674	
J14	Screw, 5/16-18 X 1 Hex Head Cap	4	151743	
J15	Washer, 5/16 SAE Flat	4	151754	
J16	Washer, 5/16 Split Lock	4	151747	
J17	Nut, 5/16-18 Hex	4	101196	
J18	Screw, 5/16-18 x 3 Hex Head Tap	1 1	162473	
J18A	Bolt, 5/16-18 x 2 1/2 Carriage	1	152675	
J19	Pivot, Blade Guard	1	153208	
J20	Washer, 3/8 SAE Flat	2	150923	
J21	Wing nut, 5/16-18 Nylock	1	151746	
J22	Strap, Motor Adjustment	1	152673	
J23	Screw, 3/8-16 X 3 1/2 Hex Head Full Thread	1	153147	
K	Guide Bars	-	-	
K1	Bar, 3/4 X 32 Guide, 101	1	134759	
K1A	Bar, 3/4 X 37 Guide, 101Pro		153492	
K2	Cover, Guide Bar, 120° X 35"	1	158403	
K2A	Cover, Guide Bar, 120 X 33		153219	
K2B	Cover, Guide Bar, 101F1024 Cover, Guide Bar, 120° X 37"		160143	
K2C	Cover, Guide Bar, 120 X 37		151771	
K3	Spacer, Guide Bar Cover, 101		152393	
K4			151743	
K5	Washer, 5/16 Split Lock	2	151747	
K6	Washer, 5/16 SAE Flat	2	151754	
L	Linear Bearings	-	-	
L1	Linear Bearing, 101	1	135855	
L2	Screw, 5/16-18 X 1 Hex Head Cap	2	151743	
L3	Washer, 5/16 Split Lock	2	151747	

L4	Washer, 5/16 SAE Flat	2	151754
	Traditor, of to ofter that	-	101701
М	Tables	-	-
M1	Table, 100/101	1	157660
M1A	Table, 1-Slot, 101Pro24	1	160174
M2	Table Extension, 101Pro	1	162075
M3	Screw, 1/4-20 X 1/2 Socket Head Set	2	155804
M4	Shim, .004 X 5/16 ID X 1/2 OD	4	152519
M5	Washer, 5/16 SAE Flat	2	151754
M6	Washer, 5/16 Split Lock	2	151747
M7	Screw, 5/16-18 X 1 Hex Head Cap	2	151743
M8	Table Extension, Front	1	158215
M9	Screw, 1/4-20 X 5/16 Socket Head Set	2	154226
MA	Table, Tracker Wheel	-	-
-	Assembly, Tracker Wheel Table	1	159554
MA1	Table, 101 Tracker Wheel	1	158962
MA2	Wheel, Conveyor Cart	2	133090
MA3	Nut, Hex w/ WSHR 5/16-18	2	153942
MA4	,		158937
MA5	,		159652
MA6			157522
MA7	Screw, 5/16-18 x 3/4 Hex Head Cap 2		151369
MA8	Washer, 5/16 Split Lock	2	151747
MA9	Washer, 5/16 SAE Flat	2	151754
N	Roller Wheel	-	-
-	Assembly, Roller Wheel	1	151756
N1	Bracket, Roller Wheel	1	154021
N2	Wheel, Roller	1	151799
N3	Screw, 1/4-20 X 1 1/2 Hex Head Cap	1	151914
N4	Washer, 1/4 SAE Flat	1	151915
N5	Nut, 1/4-20 Hex	1	151893
NA	Dual Roller Wheel	-	-
-	Assembly, Dual Roller Wheel	1	159549
NA1	Bracket, Dual Roller Wheel	1	159548
NA2	Wheel, Roller	2	151799
NA3			151914
NA4	Washer, 1/4 SAE Flat		151915
NA5	Nut, 1/4-20 Hex	2	151893
NA6	Shim, .004 X 5/16 ID X 1/2 OD	~4	152519

THEORY

THEORY OF DIAMOND BLADES:

Diamond blades do not really cut; they grind the material through friction. Diamond crystals, often visible at the leading edge and sides of the rim/segment, remove material by scratching out particles of hard, dense materials, or by knocking out larger particles of loosely bonded abrasive material. This process eventually cracks or fractures the diamond particle, breaking it down into smaller pieces. As a result, a diamond blade for cutting soft, abrasive material must have a hard metal matrix composition to resist this erosion long enough for the exposed diamonds to be properly utilized. Conversely, a blade for cutting a hard, non-abrasive material must have a soft bond to ensure that it will erode and expose the diamonds embedded in the matrix. These simple principles are the foundation of "controlled bond erosion".



Types of Cutting:

There are two basic types of cutting-Dry or Wet. The choice of which type of blade to use depends on:

- The requirements of the job
- The machine/tool utilizing the diamond blade
- The preference of the operator

In the case of DRY cutting, the overwhelming popularity and quantity of hand-held saws and the flexible nature of MK Diamond blades to professionally handle most ceramic, masonry, stone and concrete materials, make the DRY cutting blade a very attractive tool. When using a DRY blade, the user must be aware of distinct operating practices to ensure optimum performance. DRY cutting blades require sufficient airflow about the blade to prevent overheating of the steel core. This is best accomplished by shallow, intermittent cuts of the material with periods of "free-spinning" (for several seconds) between each cut, to maximize the cooling process.

For WET cutting applications, MK has the exact blade to compliment both the material to be cut and the wet cutting machine to be used. During cutting operations, liberal amounts of water act as a coolant to support the cutting effectiveness and longevity of the WET blade. Additionally, using water adds to the overall safety of cutting operations by keeping the dust signature down.

Know All You Can About the Material You Wish to Cut

ACCESSORIES

ACCESSORIES:

ITEM	NUMBER	DESCRIPTION		
1.	137166	MK-200, 10 x 5/8 Arbor		
2.	128074	MK-215, 10 x 5/8 Arbor		
3.	153252	MK-315, 10 x 5/8 Arbor		
4.	134577	Dual 45° Flat Angle Guide		
6.	134569	90° Protractor		
7.	152792	Dressing Stone		
8.	152610	Ground Fault Circuit Interrupter		
9.	151889	Universal Stand		

ORDERING and RETURN INFORMATION

ORDERING INFORMATION:

You may order MK Diamond products through your local MK Diamond distributor or, you may order direct from MK Diamond.

NOTE: There is a \$25.00 minimum order when ordering direct from MK Diamond. All purchases must be made using VISA or MasterCard.

When ordering direct from MK Diamond, please have the following information ready before calling:

- The Model Number of the saw
- The Serial Number of the saw
- Where the saw was purchased and when
- The Part Number for the part(s) being ordered
- The Part Description for the part(s) being ordered

All parts may be ordered by calling toll free to $-800\ 421-5830$ or $310\ 539-5221$ and asking for Customer Service. For technical questions, call $-800\ 474-5594$.

RETURN MATERIALS POLICY:

To expedite the service relative to the return of a product purchased through MK Diamond, please observe the following:

NOTE: When returning all items, they must have been purchased within the previous twelve (12) months.

- Have the Model Number of the saw
- Have the Serial Number of the saw
- Have the location of where the saw was purchased
- Have the date when the saw was purchased
- Contact Customer Service for approval to return the item(s)
- Obtain a Returned Goods Number (RGA) authorizing the return
- Follow the packaging instructions in the following section
- Ensure your item(s) are prepaid to the destination

For returned items, call toll free to $-800\ 421-5830$ or $310\ 539-5221$ and ask for Customer Service. For technical questions, call $-800\ 474-5594$ or $310\ 257-2845$.

PACKAGING INSTRUCTIONS:

- Remove the Blade guard and Support Angle Assembly
- Dry the saw before shipping
- When packing, include the following: MK-101, Diamond Blade, Blade guard and Support Angle Assembly and Adjustable Cutting Guide (Other Accessories are not required)
- Package the unit in its original container or one of comparable size (do not ship the unit partially exposed)
- Ensure all parts are secured in the packaging to prevent moving

AUTHORIZED SERVICE CENTERS:

For quicker repair time, you may contact MK Diamond Customer Service, toll free, at – **800 421-5830** or **310 539-5221** for the Authorized Service Center closest too you. For technical questions, call – **800 474-5594**.



MK-101 Pro MK-101 Pro 24



CALIFORNIA PROPOSITION 65 MESSAGE:

AWARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead, from lead-based paints
- Crystalline silica, from bricks and cement and other masonry products and
- Arsenic and chromium, from chemically treated lumber

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

MK DIAMOND PRODUCTS, INC 1315 STORM PARKWAY, TORRANCE, CA 90509-2803 310 539 5158